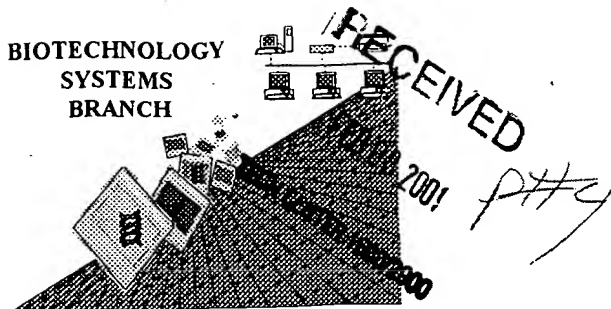


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/623,548

Source: 1653

Date Processed by STIC: 1/31/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/623,548

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism (NEW RULES) Sequence(s) are missing this mandatory field or its response.
- 12 Use of <220>Feature (NEW RULES) Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1653

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/623,548

DATE: 01/31/2001

TIME: 13:49:00

Input Set : A:\Redc2111.TXT

Output Set: N:\CRF3\01312001\I623548.raw

P.6

3 <110> APPLICANT: Conjuchem, Inc.
 4 Bridon, Dominique
 5 Ezrin, Alan
 6 Milner, Peter
 7 Holmes, Darren
 8 Thibaudeau, Karen
 10 <120> TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM
 11 PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD
 12 COMPONENTS
 14 <130> FILE REFERENCE: 2110
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/623,548
 C--> 17 <141> CURRENT FILING DATE: 2000-09-05
 19 <150> PRIOR APPLICATION NUMBER: 60/134,406
 20 <151> PRIOR FILING DATE: 1999-05-17
 22 <150> PRIOR APPLICATION NUMBER: 60/153,406
 23 <151> PRIOR FILING DATE: 1999-09-10
 25 <150> PRIOR APPLICATION NUMBER: 60/159,783
 26 <151> PRIOR FILING DATE: 1999-10-18
 28 <160> NUMBER OF SEQ ID NOS: 1617
 30 <170> SOFTWARE: PatentIn Ver. 2.1
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 19
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Artificial Sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 39 Peptide
 41 <400> SEQUENCE: 1
 42 His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys
 43 1 5 10 15
 45 Val Tyr Pro
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 8
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Artificial Sequence
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 56 Peptide
 58 <400> SEQUENCE: 2
 59 Met Glu His Phe Arg Trp Gly Lys
 60 1 5
 63 <210> SEQ ID NO: 3
 64 <211> LENGTH: 39
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING DATE: 01/31/2001
 PATENT APPLICATION: US/09/623,548 TIME: 13:49:00

Input Set : A:\Redc2111.TXT
 Output Set: N:\CRF3\01312001\I623548.raw

```

70      Peptide
72 <400> SEQUENCE: 3
73 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
74   1               5               10               15
76 Arg Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala
77           20           25           30
79 Glu Ala Phe Pro Leu Glu Phe
80           35
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 13
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
90      Peptide
92 <400> SEQUENCE: 4
93 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val
94   1               5               10
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 16
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
104      Peptide
106 <400> SEQUENCE: 5
107 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
108   1               5               10               15
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 17
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
118      Peptide
120 <400> SEQUENCE: 6
121 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
122   1               5               10               15
124 Arg
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 24
130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
135      Peptide
137 <400> SEQUENCE: 7
138 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
139   1               5               10               15

```

RAW SEQUENCE LISTING DATE: 01/31/2001
 PATENT APPLICATION: US/09/623,548 TIME: 13:49:00

Input Set : A:\Redc2111.TXT
 Output Set: N:\CRF3\01312001\I623548.raw

```

141 Arg Arg Pro Val Lys Val Tyr Pro
142      20
145 <210> SEQ ID NO: 8
146 <211> LENGTH: 7
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
152      Peptide
154 <400> SEQUENCE: 8
155 Met Glu His Phe Arg Trp Gly
156      1      5
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 32
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
166      Peptide
168 <400> SEQUENCE: 9
169 Phe Arg Trp Gly Lys Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val
170      1      5      10      15
172 Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu Glu
173      20      25      30
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 22
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
186      Peptide
188 <400> SEQUENCE: 10
189 Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu
190      1      5      10      15
192 Ala Phe Pro Leu Glu Phe
193      20
196 <210> SEQ ID NO: 11
197 <211> LENGTH: 39
198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
203      Peptide
205 <400> SEQUENCE: 11
206 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
207      1      5      10      15
209 Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala Glu Asn Glu Ser Ala
210      20      25      30
212 Glu Ala Phe Pro Leu Glu Phe

```

RAW SEQUENCE LISTING DATE: 01/31/2001
 PATENT APPLICATION: US/09/623,548 TIME: 13:49:00

Input Set : A:\Redc2111.TXT
 Output Set: N:\CRF3\01312001\I623548.raw

```

213          35
216 <210> SEQ ID NO: 12
217 <211> LENGTH: 28
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
223     Peptide
225 <400> SEQUENCE: 12
226 Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala
227   1              5              10              15
229 Glu Asn Glu Ser Ala Glu Ala Phe Pro Leu Glu Phe
230           20              25
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 18
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
240     Peptide
242 <400> SEQUENCE: 13
243 Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu
244   1              5              10              15
246 Glu Phe
250 <210> SEQ ID NO: 14
251 <211> LENGTH: 39
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
257     Peptide
259 <400> SEQUENCE: 14
260 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
261   1              5              10              15
263 Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala Glu Asn Glu Ser Ala
264           20              25              30
266 Glu Ala Phe Pro Leu Glu Phe
267       35
270 <210> SEQ ID NO: 15
271 <211> LENGTH: 28
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
277     Peptide
279 <400> SEQUENCE: 15
280 Pro Val Gly Lys Lys Arg Arg Pro Val Lys Val Tyr Pro Asn Val Ala
281   1              5              10              15
283 Glu Asn Glu Ser Ala Glu Ala Phe Pro Leu Glu Phe

```

RAW SEQUENCE LISTING DATE: 01/31/2001
 PATENT APPLICATION: US/09/623,548 TIME: 13:49:00

Input Set : A:\Redc2111.TXT
 Output Set: N:\CRF3\01312001\I623548.raw

```

284          20          25
287 <210> SEQ ID NO: 16
288 <211> LENGTH: 18
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
294 Peptide
296 <400> SEQUENCE: 16
297 Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu Ala Phe Pro Leu
298 1          5          10          15
300 Glu Phe
304 <210> SEQ ID NO: 17
305 <211> LENGTH: 33
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
311 Peptide
313 <400> SEQUENCE: 17
314 Val Cys Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val
315 1          5          10          15
317 Gly Asn Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg
318 20          25          30
320 Val
324 <210> SEQ ID NO: 18
325 <211> LENGTH: 34
326 <212> TYPE: PRT
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
331 Peptide
333 <400> SEQUENCE: 18
334 Gly Ile Cys Ala Cys Arg Arg Arg Phe Cys Pro Asn Ser Glu Arg Phe
335 1          5          10          15
337 Ser Gly Tyr Cys Arg Val Asn Gly Ala Arg Tyr Val Arg Cys Cys Ser
338 20          25          30
340 Arg Arg
344 <210> SEQ ID NO: 19
345 <211> LENGTH: 5
346 <212> TYPE: PRT
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
351 Peptide
353 <400> SEQUENCE: 19
354 Met Glu His Phe Phe
355 1          5
358 <210> SEQ ID NO: 20

```

09/623,548 6

<210> 356
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 356
Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val
1 5 10 15

(Xaa) Gly Arg

see item 10 on Ena Summary Sheet

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/623,548

DATE: 01/31/2001
TIME: 13:49:01

Input Set : A:\Redc2111.TXT
Output Set: N:\CRF3\01312001\I623548.raw

L:16 M:270 C: Current Application Number differs, Replaced Application Number
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1273 M:283 W: Missing Blank Line separator, <400> field identifier
L:1274 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (81) SEQUENCE:
L:1735 M:283 W: Missing Blank Line separator, <400> field identifier
L:1736 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (108) SEQUENCE:
L:5945 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:356
L:5945 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:356
L:5945 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:356
L:6849 M:283 W: Missing Blank Line separator, <400> field identifier
L:6850 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (409) SEQUENCE:
L:6910 M:283 W: Missing Blank Line separator, <400> field identifier
L:6911 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (414) SEQUENCE: